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OPIE

#2

RAW SEQUENCE LISTING DATE: 04/10/2001
PATENT APPLICATION: US/09/820,788 TIME: 15:48:01

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\04102001\1820788.raw

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/820,788

DATE: 04/10/2001
TIME: 15:48:01

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\04102001\I820788.raw

58	1	5	10	15												
59	Leu	Leu	Leu	Val	Asp	Leu	Met	His	Arg	Arg	Gln	Arg	Trp	Ala	Ala	Arg
60				20			25							30		
61	Tyr	Ser	Pro	Gly	Pro	Leu	Pro	Leu	Pro	Gly	Leu	Gly	Asn	Leu	Leu	His
62				35			40						45			
63	Val	Asp	Phe	Gln	Asn	Thr	Pro	Tyr	Cys	Phe	Asp	Gln	Leu	Arg	Arg	Arg
64				50			55					60				
65	Phe	Gly	Asp	Val	Phe	Ser	Leu	Gln	Leu	Ala	Trp	Thr	Pro	Val	Val	Val
66	65				70				75				80			
67	Leu	Asn	Gly	Leu	Ala	Ala	Val	Arg	Glu	Ala	Leu	Val	Thr	His	Gly	Glu
68					85				90				95			
69	Asp	Thr	Ala	Asp	Arg	Pro	Pro	Val	Pro	Ile	Thr	Gln	Ile	Leu	Gly	Phe
70					100				105				110			
71	Gly	Pro	Arg	Ser	Gln	Gly	Arg	Pro	Phe	Arg	Pro	Asn	Gly	Leu	Leu	Asp
72					115				120				125			
73	Lys	Ala	Val	Ser	Asn	Val	Ile	Ala	Ser	Leu	Thr	Cys	Gly	Arg	Arg	Phe
74					130				135				140			
75	Glu	Tyr	Asp	Asp	Pro	Arg	Phe	Leu	Arg	Leu	Leu	Asp	Leu	Ala	Cln	Glu
76	145					150				155				160		
77	Gly	Leu	Lys	Glu	Glu	Ser	Gly	Phe	Leu	Arg	Glu	Val	Leu	Asn	Ala	Val
78						165				170				175		
79	Pro	Val	Leu	Leu	His	Ile	Pro	Ala	Leu	Ala	Gly	Lys	Val	Leu	Arg	Phe
80						180			185				190			
81	Gln	Lys	Ala	Phe	Leu	Thr	Gln	Leu	Asp	Glu	Leu	Leu	Thr	Glu	His	Arg
82						195			200				205			
83	Met	Thr	Trp	Asp	Pro	Ala	Gln	Pro	Pro	Arg	Asp	Leu	Thr	Glu	Ala	Phe
84						210			215				220			
85	Leu	Ala	Glu	Met	Glu	Lys	Ala	Lys	Gly	Asn	Pro	Glu	Ser	Ser	Phe	Asn
86	225					230				235				240		
87	Asp	Glu	Asn	Leu	Arg	Ile	Val	Val	Ala	Asp	Leu	Phe	Ser	Ala	Gly	Met
88						245				250				255		
89	Val	Thr	Thr	Ser	Thr	Thr	Leu	Ala	Trp	Gly	Leu	Leu	Leu	Met	Ile	Leu
90						260			265				270			
91	His	Pro	Asp	Val	Gln	Arg	Arg	Val	Gln	Gln	Glu	Ile	Asp	Asp	Val	Ile
92						275			280				285			
93	Gly	Gln	Val	Arg	Arg	Pro	Glu	Met	Gly	Asp	Gln	Ala	His	Met	Pro	Tyr
94						290			295				300			
95	Thr	Thr	Ala	Val	Ile	His	Glu	Val	Gln	Arg	Phe	Gly	Asp	Ile	Val	Pro
96	305						310			315				320		
97	Leu	Gly	Val	Thr	His	Met	Thr	Ser	Arg	Asp	Ile	Glu	Val	Gln	Gly	Phe
98							325			330				335		
99	Arg	Ile	Pro	Lys	Gly	Thr	Thr	Leu	Ile	Thr	Asn	Leu	Ser	Ser	Val	Leu
100						340			345				350			
101	Lys	Asp	Glu	Ala	Val	Trp	Glu	Lys	Pro	Phe	Arg	Phe	His	Pro	Glu	His
102						355			360				365			
103	Phe	Leu	Asp	Ala	Gln	Gly	His	Phe	Val	Lys	Pro	Glu	Ala	Phe	Leu	Pro
104						370			375				380			
105	Phe	Ser	Ala	Gly	Arg	Arg	Ala	Cys	Leu	Gly	Glu	Pro	Leu	Ala	Arg	Met
106	385					390				395				400		

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160 gtgtgtccag aggagccag ttggtagtga ggcagccatg gggctagaag cactggtgcc 2100
161 cctggccatg atagtggcca tcttcctgct cctggtgac ctgatgcacc ggcaccaacg 2160
162 ctgggctgca cgctaccgc caggtcccct gccactgccc gggctggca accttgcgtgc 2220
163 atgtggactt ccagaacaca ccatactgct tcgaccaggat gagggaggag gtctggagg 2280
164 gccggcaggagg tcctgaggat gcccaccac cagcaaaacat gggctgtggg taaaaccaca 2340
165 ggctggatca gaagccaggc tgagaagggg aagcaggat tggggacgtt cctggggaaag 2400
166 gacattttata catggcatga aygactggat tttccaaagg ccaagaaga gtagggcaag 2460
167 ggcctggagg tggagctgga cttggcagtg ggcatgcaag cccatgggc aacatatgtt 2520
168 atggagtaca aagtccctt tgctgacacc agaaggaaag gccttggaa tgaagatga 2580
169 gtagtgcctg agtgcgcgtt aaatcacgaa atcgaggat aaggggggtc agtgaccgg 2640
170 ttcaaacctt ttgcactgtg ggtccctggg cctcactgt caccggcatg gaccatcatc 2700
171 tggaaatggg atgctaactg gggcctctcg gcaatttttg tgactcttgc aaggtcatac 2760
172 ctgggtgacg catccaaact gagttccctc atcacaaggat gtgtgacccc caccctgccc 2820
173 ccacgatcag gaggctgggt ctcctccctc caccgtctca ctcctggtag ccccggggg 2880
174 cgtccaaagggt tcaaataggg ctggacatcg tagtctgggg tgatctggc ttgacaagag 2940
175 gccctgaccc tccctctgca gttggggcgc cgttctgggg acgtgttcgtt cctgcacgtt 3000
176 ycttggacgc cytgggtctg tctcaatggg ctggggccccc tggcggaccc yatgggtgacc 3060
177 cgcggcggagg acaegggcga cggccggcgtt ggcgcctatc accaggtctt gggcttcggg 3120
178 ccgcgttccc aaggcaacgc ggggtgggg acagagaccg cgttctgggg gggcccccgg 3180
179 ggacagtacg cgtagcccaa gcaacggcga cagggcgtgg ggtctggac gtgaaacaga 3240
180 gataaaggcc aycgagttgg ctgaggacag tggggccagga aaccacccgtc acggggggagg 3300
181 tgcgagttcg tgggtctggg gggggggggg ctactgccc gaccggccag aagcccggtt 3360
182 ygcgatgtcg atgcgttcaa tgggggggtt cggggggccgc gctatgtt cgggttcgtt 3420
183 tggggcggggc cggggggat cttcccttgc tggaaagggtt gtcagggtgg gcaagagacg 3480
184 gttggggccaa aaccggccccc caggcagggg acaatgtttt gtgagcaag agtggggccct 3540
185 gtggccagct ggacggggctt agggacttgcg yagacccctt tggagccca ggggtggag 3600
186 ygggttggggaa gggttggggcc aaggcccttca tggcaacccgc caccgttcccg tcccgcccc 3660
187 aggggtgtatc ctgttgcgtt atggggccgc gttggcggag cagagccgtt totccgtgtc 3720
188 caccttgcgc aacttggcc tggcaagaa gtcgttgcgtt cgttgggtt cccgggggg 3780
189 cgcctgcctt tggccgtt cggccacaa gccgggtgg gatggcaga agggcacaaa 3840
190 gccccggactt ggaaggccggg ggacggagaa gcaacccctt tcccccgtt tcccccccc 3900
191 caggacyccc ctttgcctt aacggccctt tggacaaaggc cgttgcac gttatgcct 3960
192 ccctcacctt cggggccgc ttcgttgcgtt acgacccttc cttcccttgcgtt gggccggacc 4020
193 tagctcagga gggacttgcg gaggagttcg gttttctgcg cgggttgcgg agcgagagac 4080
194 cgaggagttctt ctgcaggccg agtcttgcgtt aggttgcggg gctggactgg ggcctccggaa 4140
195 gggcaggatt tgcataatgtt ggttggggaa aggacatttc aggagacccc actgttggaa 4200
196 gggcctgggg gaggaggggg catctcagac atgggtgtt ggggggggg ggggggggg 4260
197 ggggcaccag gagaggccaa ggacttgcgtt ccccccgttca cgttggat ttcgtatttt 4320
198 gttttcttctt ctggcaggcc agagagggtt gagggttgcgtt cttgggggg gacttgggtt 4380
199 ggtcagtgtt aaggacaggc agggccctggg ttcacccgtt gatggctggg gcttgagact 4440
200 tggccagggtt aacggcaggc acaggagggtt ttggacccccc gttctgttgc gtttaggtgc 4500
201 tgaatgtgtt ccccggttcc ctgcacatcc caccgttgcgtt tggcaaggcc tttatgttcc 4560
202 aaaagggtttt cctgacccag ctggatgttgc tgcataactgtt gcaacggatg acctggggacc 4620
203 cagcccccaccc acccggacac ctgactgggg ctttccgttcc aaagaaggag aaygtgatgg 4680
204 tggctggccac ggtggggggc aagggtgggtt ggttgcgtt cccaggaggat atgggggggg 4740
205 gctggggccaa aggttggacc agtgcacatcc cccggccggcc gcatctggcc tggcagggtgc 4800
206 agaatttgggg gtcattttttt ggcttccccc ttctatcccc tggatgttcc tccggccctt 4860
207 ctcaggccaa gggggccctt gaggacgtt tcaatgtatgtt gaaacccgttcc atagtgggtgg 4920
208 gtaacctgtt ctttgcgggg atggtgcacca cttccgttcc gctggccctt ggcctccgtt 4980

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209 tcatgatcct acacctggat gtgcagcgtg agcccagctg gggcccaagg cagggactga 5040
210 gggaggaagg gtacagctgg gggccctgg gcttagctgg gacacccggg gcttccagca 5100
211 caggcgtggc caggctctg taagcctaac ttcttccaaac acaggaggaa ggagagtgtc 5160
212 ccctgggtgc tgaccattt tggggacga tgtctgtcca gtccgttgc aacaggagat 5220
213 cgacgacgtg atagggcagg tgccgcacc agagatgggt gaccaggctc acatgcccta 5280
214 caccactgcc gtgattcacc aggtgcagcg ctggggacatcatcccc tgagtgtgac 5340
215 ccatacgaca tcccggtaca tcgaagtaca gggcttccgc atccctaagg taggcctggc 5400
216 gcctcttca ccccaagctca gcaccagcac ctggtgatag ccccaagcatg gctactgcca 5460
217 ggtggggccca ctcttagyaac ctggccacc tagtcctcaa tgccaccaca ctgactgtcc 5520
218 ccacttgggt ggggggtcca gatgatagggc agggctggcc tgcctatcca gagcccccg 5580
219 cttagtgggg aacaaaccag gacctggcc aatgttggag gaccaggcgc ctgcaggag 5640
220 agggggcagt gtgggtgcct ctgagaggta tgactgcgc ctgctgtggg gtggagagg 5700
221 gtaactgtggc gcttctcggg cgcaggacta gttgacagag tccagctgtg tgccaggcag 5760
222 tttgtgtccc ccgtgtgtt ggtggcagg gtcggcact cctagacttcc agtccccact 5820
223 ctcaccctgc atccctgc caggaaacga cactcatcac caaccctgtca tccgtgtca 5880
224 agatgyaggc cgtctggag aagccctcc gtttccaccc cyaacacttc ctggatgccc 5940
225 ayyccactt tttgtggccgg gaggtttcc tgcctttctc aycaggtgtcc tttttttttt 6000
226 ccggccctt gtcggccctt gtggagttt gcaagggtat cacccaggag ccaggctc 6060
227 tgaecggccctt cccttccccca caggccggc tgcattgcctc ggggagcccc tggcccccatt 6120
228 ggagcttcc ctcttcttca cttccctgtc gcagacttc agtttctcc tggccggccgg 6180
229 acagccccgg cccaycaact ctgtgtgtgtc tgcattttctc tttttttttt 6240
230 gctttgtgtc gtggcccgct agaatgggt acctagtccc cagcctgctc cttttttttt 6300
231 ggccttaatg tacaataaaag caatgtttgtt gttttttttt ggggtttttttt 6360
232 ctttgggatc atccctctca gggcaacccc accccctgcct cattttttttt tttttttttt 6420
233 cttggccggca tttttttttt gttttttttt gttttttttt tttttttttt 6480
234 aatccccatgt ccccaacttca ccccaacttca actgtttttttt gttttttttt 6540
235 gtccctggcat gtggggaaagg ggcacaaatg ggtttttttt tttttttttt 6600
236 tttttttttt tttttttttt tttttttttt tttttttttt 6660
237 cccacatcag ggacagcagt cttttttttt tttttttttt tttttttttt 6720
238 gacaccccaa aatggaaagac aaatcatgtc agggagttt tttttttttt 6780
239 ggtttttttt tttttttttt tttttttttt tttttttttt 6840
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252 tttttttttt tttttttttt tttttttttt tttttttttt 7620
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257 tttttttttt tttttttttt tttttttttt tttttttttt 7920

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/820,788

DATE: 04/10/2001
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Input Set : A:\Seqlist.txt
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L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3